CLAIMS

1. A heat exchanger adopting a four-pass structure, comprising:

a plurality of tubes disposed so as to distribute a coolant along a top-bottom direction over two rows to the front and rear along the direction of airflow;

a first upper tank portion communicating with the upper end of a group of tubes disposed in one of the tube rows;

a second upper tank portion communicating with the upper end of a group of tubes disposed in the other tube row;

a first lower tank portion communicating with the lower end of said group of tubes disposed in the one tube row;

a second lower tank portion communicating with the lower end of said group of tubes disposed in said other tube row;

a communicating passage that communicates between one end of said first upper tank portion and one end of said second upper tank portion;

a partitioning means for partitioning said first upper tank portion and said second upper tank portion at substantial centers thereof;

an inflow port communicating with the other end of said first upper tank portion, through which coolant from an outside source flows in; and

an outflow port communicating with the other end of said second upper tank portion, through which coolant flows out to the outside;

wherein an opening area at said inflow port is set smaller than an opening area at said outflow port.

2. A heat exchanger according to claim 1:

 $25 \sim 65 \text{ mm}^2$.

wherein the center of the opening at said inflow port is set at a position higher than the center of the opening at said outflow port.

- 3. A heat exchanger according to claim 1 or claim 2: wherein the opening area at said inflow port is within a range of
- 4. A heat exchanger according to any of claims 1 through 3, utilized in a refrigerating cycle that includes a variable capacity compressor.